

Amendment/Response

Reply to non-Final Office action of 25 August 2006

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) An electric lamp comprising a glass component, the composition of the glass component being substantially free of PbO and comprising, expressed as a percentage by weight, the following constituents:

55-70 weight% SiO₂,
<0.1 weight% Al₂O₃,
0.5-4 weight% Li₂O,
0.5-3 weight% Na₂O
10-15 weight% K₂O,
0-3 weight% MgO,
0-4 weight% CaO,
0.5-5 weight% SrO,
7-10 weight% BaO.

2. (original) The electric lamp as claimed in claim 1, characterized in that the composition of the glass component comprises:

65-70 weight% SiO₂,
<0.1 weight% Al₂O₃,
1.4-2.2 weight% Li₂O,
1.5-2.5 weight% Na₂O
11-12.3 weight% K₂O,
1.8-2.6 weight% MgO,
2.5-5 weight% CaO,
2-3.5 weight% SrO,
8-9.5 weight% BaO.

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3. (previously presented) The electric lamp as claimed in claim 1, characterized in that the composition of the glass component in addition comprises: 0.01-0.2 weight% Fe_2O_3 or 0.1-0.2 weight% CeO_2 .

4. (previously presented) The electric lamp as claimed in claim 1, characterized in that the composition of the glass component in addition comprises: 0.01-0.2 weight% SO_3 .

5. (previously presented) The electric lamp as claimed in claim 1, characterized in that the sum of the concentrations of Li_2O , Na_2O , and K_2O is in the range from 14 to 16 weight%.

6. (previously presented) The electric lamp as claimed in claim 1, characterized in that the sum of the concentrations of SrO and BaO is in the range from 10 to 12.5 weight%.

7. (previously presented) A stem for an electric lamp having a glass portion, the glass portion having a composition as claimed in claim 1.

8. (previously presented) A lamp envelope which is manufactured from a glass having a composition as claimed in claim 1.

9. (original) The lamp envelope as claimed in claim 8, characterized in that the lamp envelope is tubular.

10. (previously presented) A mercury vapor discharge lamp comprising a lamp envelope, the lamp envelope enclosing, in a gastight manner, a discharge space provided with a filling of mercury and a rare gas, the lamp envelope comprising discharge means for maintaining a discharge in the discharge space,

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characterized in that the lamp envelope is made from a glass having a composition as claimed in claim 1.

11. (previously presented) A glass for use in glass components of electric lamps, the glass having a composition as claimed in claim 1.

12. (new) An electric lamp comprising a glass component, the composition of the glass component being substantially free of PbO and comprising, expressed as a percentage by weight, the following constituents:

55-70 weight% SiO₂,
<0.1 weight% Al₂O₃,
0.5-4 weight% Li₂O,
0.5-3 weight% Na₂O
10-15 weight% K₂O,
0-3 weight% MgO,
0-4 weight% CaO,
0.5-5 weight% SrO,
7-10 weight% BaO
0.01-0.2 weight% SO₃.